

SKZ1060 Synchronous Thermal Analyzer



Simultaneous thermal analysis (DSC/DTA, TGA) is a combination of differential heating and thermo gravimetric .

It can not only study the change of sample quality with temperature or time in the process of heating and constant temperature, but also study and analyze the change process of the sample, by the heat generated changes. The purpose is to study the thermal stability and composition of the material.

Widely used in the research and development, process optimization and quality control of plastics, rubber, coatings, pharmaceuticals, catalysts, inorganic materials, metal materials and composite materials

Application range:

Thermal stability, decomposing process, adsorption and desorption, oxidation and reduction, ingredients quantitative analysis, additives and filler influence, moisture and volatiles, reaction kinetics.

Structural advantages:

1. The furnace body is heated by double-row winding of precious metal nickel-cadmium alloy wire, which reduces interference and is more resistant to high temperatures.
2. The tray sensor is made of precious metal alloy wire, which has the advantages of high temperature resistance, oxidation resistance and corrosion resistance.
3. The power supply and circulating heat dissipation part are separated from the main machine to reduce the influence of heat and vibration on the micro-thermal balance.
4. Adopt top-opening structure, easy to operate. It is difficult to move the furnace body up to place the sample, and it is easy to damage the sample rod.

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5. The host uses the heat insulation of the heating furnace body to the chassis and micro-thermal balance.
6. The furnace body can be replaced according to customer requirements

Controller and software advantages:

1. Using imported ARM processor, sampling speed, processing speed is faster.
2. Four-channel sampling AD collects TG signal and temperature T signal.
3. Heating control, using PID algorithm, precise control. Multi-stage heating and constant temperature
4. The USB two-way communication is adopted between the software and the instrument to fully realize remote operation. The parameter setting of the instrument and the operation and stop of the instrument can be carried out through the computer software.
5. 7-inch full-color 24bit touch screen, better man-machine interface. TG calibration can be achieved on the touch screen

Technical parameters:

Display	7 inches LCD color screen display
Temperature range	Room temperature ~1150°C, Actual maximum temperature 1100°C (SKZ1060A) Room temperature ~1350°C, Actual maximum temperature 1200°C (SKZ1060B)
Temperature resolution	0.1 °C
Temperature fluctuation	±0.1°C
Heating rate	1 -- 80 °C/ min
Temperature control mode	Temperature rise/fall and constant
Constant temperature time	0--300min, Can be set
Cooling time	15min (1000°C~100°C)
Scale Capacity	1mg---3g (Optional 10g)
DSC measuring range	0---±500mW
DSC Resolution	0.01uW
Resolution	0.01mg
Constant temperature time	0 --300min Can be set
Atmosphere	Inertia, oxidability, reducibility, static and dynamic
Atmosphere device	Built-in gas flow meter
Software	4 in 1 operating software, can switch to DSC, DTA, TGA, STA
Data interface	USB
Power	AC220V 50Hz
Size	500*400*430mm

Packing List
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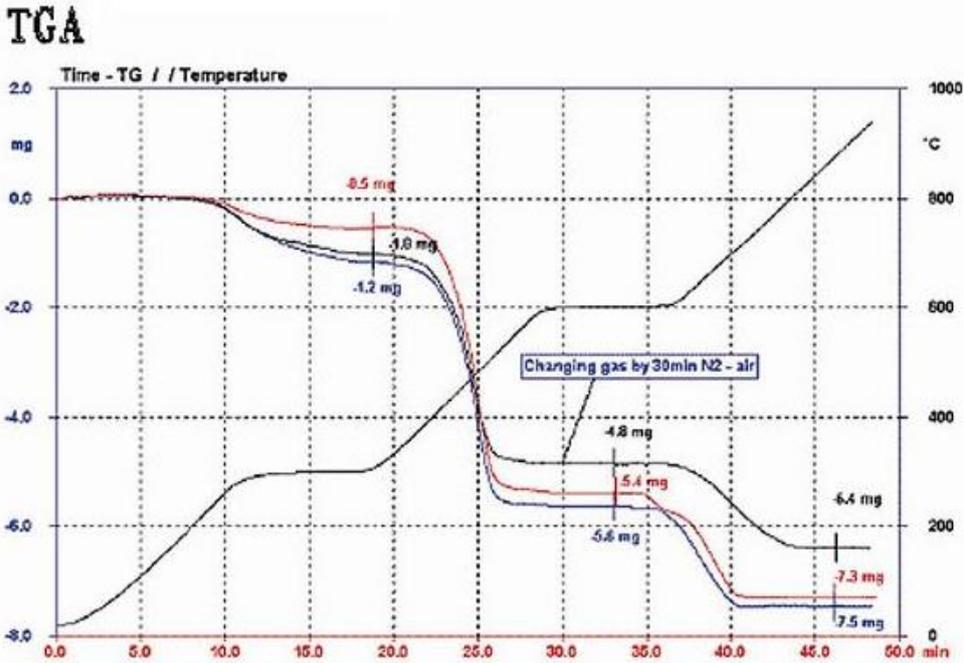
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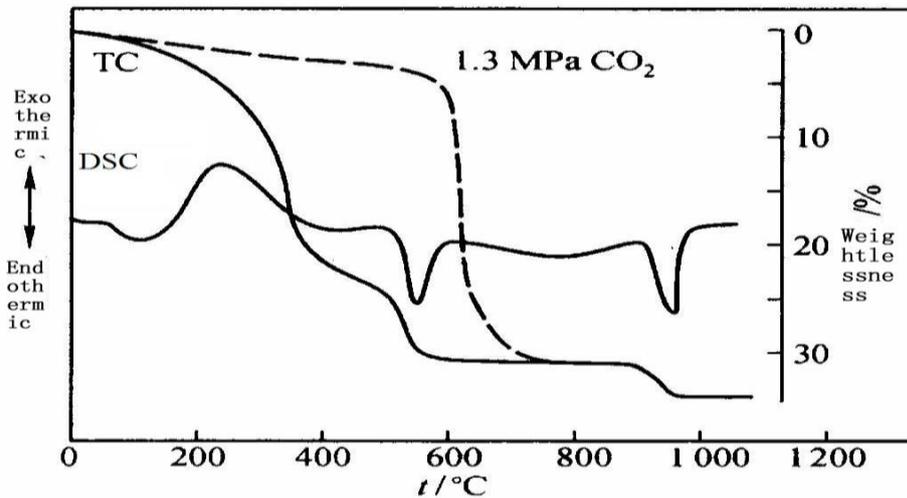
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Host machine	1 set
U DISCK with installation system	1 piece
Power Cord	1 piece
Data line	2 pieces
Sample crucible	100 pieces
10A fuse	5 pieces
Operational manual	1 piece

Curves of TGA for reference:



Curves for TGA and DSC



Accessory:

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Transparent tubes, USB cable, power cable, furnace cover, inside furnace cap, tin granules, fuse, ceramic crucibles, Aluminum crucibles, blowing tools, sample spoon, tweezers

We offer 100pcs of Aluminum crucible and 100pcs of Ceramic crucible as spare:



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